

ASBESTOS ANALYSIS BY POLARIZED LIGHT MICROSCOPY

Method: EPA-600/M4-82-020

Weston Solutions, Inc.
20 N Wacker Drive Suite 1210
Chicago, IL 606062901
Phone: (312) 424-3300
Fax: (312) 424-3330

Reference: PO#0068086

Date Received: 08/27/2009

Location: M & H Zinc LaSalle, IL

Date Analyzed: 08/27/2009

Batch No.: 285556

Date Reported: 08/27/2009

Customer No.: 1324

Turn Around Time: 24 Hour

Laboratory Sample	Customer Sample Number	Asbestos Components (%)	Non-Asbestos Components (%)
285556001	MH-ASB1-082609	Amosite 5-10%	Binder 90-95%
285556002	MH-ASB2-082609	ND	Binder 99-100%
285556003	MH-ASB3-082609	ND	Binder 90-95% Other 5-10%
285556004	MH-ASB4-082609	ND	Binder 90-95% Other 5-10%
285556005	MH-ASB5-082609	ND	Binder 99-100%
285556006	MH-ASB6-082609	ND	Cellulose 95-99% Binder 1-5%
285556007	MH-ASB7-082609	ND	Cellulose 95-99% Binder 1-5%
285556008	MH-ASB8-082609	ND	Cellulose 95-99% Binder 1-5%
285556009	MH-ASB9-082609	ND	Binder 90-95% Other 5-10%
285556010	MH-ASB10-082609	ND	Binder 90-95% Other 5-10%
285556011	MH-ASB11-082609	ND	Binder 90-95% Other 5-10%
285556012	MH-ASB12-082609	Chrysotile 5-10%	Binder 90-95%

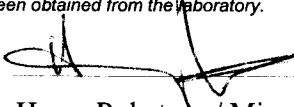
ND = Asbestos Not Detected (Not Present) NA = Not Analyzed NS = Not Submitted

Components of inhomogeneous samples are analyzed per our Standard Operating Procedure, or per customer request.

The use of the NVLAP logo does not imply endorsement by NVLAP or any agency of the US Government.

The information contained in this report and any attachments is confidential information intended only for the use of the individual or entities named above. The results of this report relate only to the samples tested. If you have received this report in error, please notify us immediately by phone. This report shall not be reproduced, except in its entirety, unless written approval has been obtained from the laboratory.

Analyzed by Name :


Henry Robateau / Microscopist

Date: 08/27/2009

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Laboratory Sample	Customer Sample Number	Asbestos Components (%)	Non-Asbestos Components (%)
285556013	MH-ASB12M-082609	Chrysotile 1-5%	Binder 95-99%
285556014	MH-ASB13-082609	Chrysotile 5-10%	Binder 90-95%
285556015	MH-ASB13M-082609	Chrysotile 1-5%	Binder 95-99%
285556016	MH-ASB14-082609	Chrysotile 5-10%	Binder 90-95%
285556017	MH-ASB14M-082609	Chrysotile 1-5%	Binder 95-99%
285556018	MH-ASB15-082609	Chrysotile 10-15%	Binder 85-90%

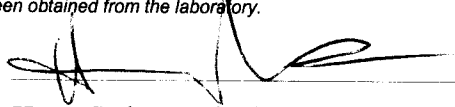
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Analyzed by Name :


Henry Robateau / Microscopist

Date: 08/27/2009

Company: Weston Solutions						Project Number: 20485-06-001-0737-00 Client Tracking No.					
Project Name: MH Zone						Project Location: La Salle IL					
Sampler(s): Dave Wojcik						Report To: Lisa Graczyk					
Phone: 312-424-3339						Fax:					
e-mail: lgraczyk@dynamil.com											
QC Level:	1	2	3	4							
Client Sample Number/Description:	Date Taken	Time Taken	Matrix	Comp	Grab	Preserv.	No. of Containers				
MH-ASB1 - 082609	8-21-09	1125	Bulk	X			2				
MH-ASB2 - 082609		1126									
MH-ASB3 - 082609		1127									
MH-ASB4 - 082609		1127									
MH-ASB5 - 082609		1129									
MH-ASB6 - 082609		1132									
MH-ASB7 - 082609		1132									
MH-ASB8 - 082609		1132									
MH-ASB9 - 082609		1133									
MH-ASB10 - 082609		1133									
MH-ASB11 - 082609		1133									
MH-ASB12 - 082609		1134									
MH-ASB13 - 082609		1134									
MH-ASB14 - 082609		1134									
MH-ASB15 - 082609		1147									
<div style="float: right; width: 100px;"> Laboratory Work Order No.: 885556 Received on Ice: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Temperature: °C </div>											

STAT ANALYSIS CORPORATION

PLM Analysis Logbook Henry

Logbook 135-0066

Stat Batch & Sample #	Date	Stereo Microscope % asb	asbestos optical properties	morphology of material			Polarized microscopy of fibrous material				Sign of elongation	Analytical Results	
				No. of layers	Color	Shape	Shape	Ext. angle	Birefringence Qual.	Ref. indices		Color & Pleochromism	% type of asbestos
135-0066-1	11/16/01	100%	fibrous	white	fibrous	fibrous	Ext. angle 0°	Qual. weak	Quant. 0.25	1.70 1.62 γ α	+	Chry. Amos. 5-10 Croco. Tremo. Antho	MMF Cell. Binder 40-55 Filler Glass Other
135-0066-2			fibrous	white	fibrous	fibrous				1.70 1.62 γ α	+	Chry. Amos. Croco. Tremo. Antho	MMF Cell. Binder 40-55 Filler Glass Other
135-0066-3			fibrous	white	fibrous	fibrous				1.70 1.62 γ α	+	Chry. Amos. Croco. Tremo. Antho	MMF Cell. Binder 40-55 Filler Glass Other
135-0066-4			fibrous	white	fibrous	fibrous				1.70 1.62 γ α	+	Chry. Amos. Croco. Tremo. Antho	MMF Cell. Binder 40-55 Filler Glass Other
135-0066-5			fibrous	white	fibrous	fibrous				1.70 1.62 γ α	+	Chry. Amos. Croco. Tremo. Antho	MMF Cell. Binder 40-55 Filler Glass Other
135-0066-6			fibrous	white	fibrous	fibrous				1.70 1.62 γ α	+	Chry. Amos. Croco. Tremo. Antho	MMF Cell. Binder 40-55 Filler Glass Other

STAT ANALYSIS CORPORATION PLM Analysis Logbook Henry

Logbook 135-0066

Stat Batch & Sample #	Date	Stereo Microscope % asb	asbestos optical properties	morphology of material			Polarized microscopy of fibrous material					Sign of elongation	Analytical Results	
				No. of layers	Color	Shape	Shape	Ext. angle	Birefringence Qual.	Quant.	Ref. indices		Color & Pleochromism	% type of asbestos
255-550 602	8/16/74			1 2 3 Other	Gray	Wob							Chry. Amos. Croco. Tremo. Antho	MMF Cell. 65% Binder 15% Filler Glass Other
255-551				1 2 3 Other	Gray	Wob							Chry. Amos. Croco. Tremo. Antho	MMF Cell. 65% Binder 15% Filler Glass Other
255-552				1 2 3 Other	Gray	Wob							Chry. Amos. Croco. Tremo. Antho	MMF Cell. Binder 60% Filler Glass Other
255-553				1 2 3 Other	Gray	Wob							Chry. Amos. Croco. Tremo. Antho	MMF Cell. Binder 60% Filler Glass Other
255-554				1 2 3 Other	Gray	Wob							Chry. Amos. Croco. Tremo. Antho	MMF Cell. Binder 60% Filler Glass Other
255-555				1 2 3 Other	Gray	Wob							Chry. Amos. Croco. Tremo. Antho	MMF Cell. Binder 60% Filler Glass Other
255-556				1 2 3 Other	Gray	Wob							Chry. Amos. Croco. Tremo. Antho	MMF Cell. Binder 60% Filler Glass Other

STAT ANALYSIS CORPORATION

PLM Analysis Logbook Henry

Logbook 135-0066

Stat Batch & Sample #	Date	Stereo Microscope % asb	asbestos optical properties	morphology of material			Polarized microscopy of fibrous material						Sign of elongation	Analytical Results	
				No. of layers	Color	Shape	Shape	Ext. angle	Birefringence Qual.	Quant.	Ref. indices	Color & Pleochromism		% type of asbestos	% non-asbestos
135-0066-013	8/11/85			↓ 2 3 Other	Gray	FT	WJ	0°	low	0.02	1.55 1.54 γ α	WJA	(+) -	Chry. 1.55 Amos. 1.54 Croco. Tremo. Antho	MMF Cell. Binder 95-99 Filler Glass Other
135-0066-014				↓ 2 3 Other	Gray	FT	WJ	0°	low	0.02	1.55 1.54 γ α	WJA	(+) -	Chry. 1.55 Amos. 1.54 Croco. Tremo. Antho	MMF Cell. Binder 95-99 Filler Glass Other
135-0066-015				↓ 2 3 Other	Gray	FT	WJ	0°	low	0.02	1.55 1.53 γ α	WJA	(+) -	Chry. 1.55 Amos. 1.53 Croco. Tremo. Antho	MMF Cell. Binder 95-99 Filler Glass Other
135-0066-016				↓ 2 3 Other	Gray	FT	WJ	0°	low	0.04	1.55 1.52 γ α	WJA	(+) -	Chry. 1.55 Amos. 1.52 Croco. Tremo. Antho	MMF Cell. Binder 95-99 Filler Glass Other
135-0066-017				↓ 2 3 Other	Gray	FT	WJ	0°	low	0.02	1.55 1.53 γ α	WJA	(+) -	Chry. 1.55 Amos. 1.53 Croco. Tremo. Antho	MMF Cell. Binder 95-99 Filler Glass Other
135-0066-018				↓ 2 3 Other	Gray	FT	WJ	0°	low	0.02	1.55 1.54 γ α	WJA	(+) -	Chry. 1.55 Amos. 1.54 Croco. Tremo. Antho	MMF Cell. Binder 95-99 Filler Glass Other

POLARIZED LIGHT MICROSCOPE: DAILY CHECKLIST

Date	8/11/05	8/12/05	8/13/05	8/14/05	8/15/05	8/16/05	8/17/05	8/18/05	8/19/05	8/20/05	8/21/05	8/22/05	8/23/05	8/24/05	8/25/05	8/26/05
Analyst	AKL	AKL	AKL	AKL	AKL	AKL	AKL	AKL	AKL	AKL	AKL	AKL	AKL	AKL	AKL	AKL
Scope ID	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Polarizer Orientation	90°	90°	90°	90°	90°	90°	90°	90°	90°	90°	90°	90°	90°	90°	90°	90°
Analyzer Orientation	90°	90°	90°	90°	90°	90°	90°	90°	90°	90°	90°	90°	90°	90°	90°	90°
Cross-hairs Alignment	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Substage Condenser Alignment	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
SRM 1866A--Analyzed	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
SRM 1866A Results	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Scope Temperature	25°	25°	25°	25°	25°	25°	25°	25°	25°	25°	25°	25°	25°	25°	25°	25°
Samples in Storage	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Ref. Sample	3/17/05	4/15/05	5/10/05	6/10/05	7/10/05	8/10/05	9/10/05	10/10/05	11/10/05	12/10/05	1/10/06	2/10/06	3/10/06	4/10/06	5/10/06	6/10/06

Date	8/27/05	8/28/05	8/29/05	8/30/05	8/31/05	9/1/05	9/2/05	9/3/05	9/4/05	9/5/05	9/6/05	9/7/05	9/8/05	9/9/05	9/10/05	9/11/05
Analyst	AKL	AKL	AKL	AKL	AKL	AKL	AKL	AKL	AKL	AKL	AKL	AKL	AKL	AKL	AKL	AKL
Scope ID	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Polarizer Orientation	90°	90°	90°	90°	90°	90°	90°	90°	90°	90°	90°	90°	90°	90°	90°	90°
Analyzer Orientation	90°	90°	90°	90°	90°	90°	90°	90°	90°	90°	90°	90°	90°	90°	90°	90°
Cross-hairs Alignment	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Substage Condenser Alignment	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
SRM 1866A--Analyzed	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
SRM 1866A Results	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Scope Temperature	25°	25°	25°	25°	25°	25°	25°	25°	25°	25°	25°	25°	25°	25°	25°	25°
Samples in Storage	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Ref. Sample	6/15/06	7/15/06	8/15/06	9/15/06	10/15/06	11/15/06	12/15/06	1/15/07	2/15/07	3/15/07	4/15/07	5/15/07	6/15/07	7/15/07	8/15/07	9/15/07